

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph at page 3, line 30, to page 4, line 14, as follows.

The 1st one of the present invention is (1) a method for improving surface thermal shock resistance of a member made of ceramics to which thermal shock resistance is required comprising, forming homogeneously distributed linear dislocation structure on the surface of the member made of ceramics to which thermal shock resistance is required by blasting abrasives composed of fine particles whose average particle size is from 5 μm to 200 μm and whose surface shape is convex, wherein Vickers hardness(HV) of said fine particles is 800 or more and equal to or less than the hardness of the member made of ceramics to which thermal shock resistance is required. Desirably, the 1st one of the present invention is (2) the method for improving surface thermal shock resistance of a member made of ceramics to which thermal shock resistance is required of (1), wherein plastic working working using blasting abrasives is carried out by blasting pressure; 0.1 – 0.5 MPa, blasting speed; 20 m/sec – 250 m/sec, blasting amount 50 g/min – 800 g/min, blasting time; 1 sec/cm² – 60 sec/cm². More desirably the 1st one of the present invention is (3) the method for improving surface thermal shock resistance of a member made of ceramics to which thermal shock resistance is required of (1) or (2), wherein the homogeneously distributed linear dislocation on the surface of the member made of ceramics to which thermal shock resistance is required forms a dislocation structure whose dislocation density is 1×10^4 – $9 \times 10^{13} \text{cm}^{-2}$.